	Application No.	Applicant(s)	
Notice of Allowability	10/659,933	ISHIDA, TAKUYA	
	Examiner	Art Unit	
	Core Addion	3722	
	Sara Addisu	3722	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due cours	se. THIS
1. This communication is responsive to <u>3/3/06</u> .			
2. ⊠ The allowed claim(s) is/are <u>1 and 3-23</u> .			
 Acknowledgment is made of a claim for foreign priority un a) All b)		or (f).	
2. ☐ Certified copies of the priority documents have		on No.	
3. ☐ Copies of the certified copies of the priority doc	* *		rom the
International Bureau (PCT Rule 17.2(a)).		ar an and manager approaches	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			() of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			the
Attachment(s)	5 Notice of I	oformal Patent Application /PTO 15	2)
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	nformal Patent Application (PTO-152 Summary (PTO-413),	-1
	Paper No	/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	ರ), 7. ⊠ Examiner's	s Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowand	се
	9. 🗌 Other	<u>_</u> ·	

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: the last line of the abstract (filed 3/3/06), "contact surface is provided" should be replaced with "contact surfaces" (i.e. add an "s" after "surface" and delete "is provided").

Allowable Subject Matter

Claims 1 and 3-23 are allowed.

Regarding independent Claims 8, 9, 10, 13 and 14: The closest prior art to the instant invention is Niebauer (U.S. Patent No. 5,122,017). Niebauer teaches a double-sided cutting insert (2) having top and bottom (principal) rake faces and seating surfaces (6 & 8), side surfaces (12), peripheral cutting edge (22), land area (24), plateau (central portion) (62) with protrusions extend towards the corners as well as midway between the corners and a floor/recess (40) located between the land and the plateau (central portion) ('017, Figure 2 and Col. 2, lines 28-36) ['017, Col. 4, lines 56-57 teach double sided insert). Niebauer also teaches in Figure 6, top surface of plateau (and also protrusion) being planar that serve as contact surface when attached to tool holder. Although Niebauer fails to teach a land surface that is planar and serve as contact surface (along with top surface of the protrusion) when attached to tool holder, it could

Art Unit: 3722

be modified by Toyose (JP 11-277307) which teaches a double-sided insert having a planar seat (7) and land (4) with a straight part (9) that is on the same plane (i.e. same height) as the seat (7) (JP 11-277307, figures 2 and abstract). Both the straight part (9) of the land and seat (7) serve as contact surface when attached to the tool holder (JP 11-277307, figure 3).

Page 3

However, the prior art of record, Niebauer, fails to anticipate or make obvious providing the insert with a ratio of areas of the central surface and said land surface in the principal surface that ranges from 50 to 90% (Claim 8). Niebauer also fails to anticipate or make obvious providing a distance of 0.5 mm or less between the distal end of the protrusion, that is located at the same height as the central surface and the land surface or a height of the distal end of said protrusion decreasing by an angle in a the range from 10 to 60 degrees toward said land surface (Claim 9). Additionally, Niebauer, fails to anticipate or make obvious providing the insert's recess with dimensions in a range from 0.1 mm to 0.6 mm in recess depth (h1), from 0.7 mm to 2 mm in recess width (w), from 0.3 mm to 1.5 mm in width (w1) from the land surface side to the bottom of the recess, and from 0.5 mm to 1.7 mm in width (w2) from the bottom of said recess to said central surface (Claim 14). Regarding claims 10 and 13, Niebauer, fails to anticipate or make obvious a linkage portion connecting at least one protrusion and the edge of the land surface. It should be noted that although Wiman et al. (U.S. Patent No. 5,743,681) teaches an insert having a land surface (6) protrusion (11) and a linkage portion (13) (681, figure 6 and Col. 3, lines 8-15), the linkage portion (13)

Application/Control Number: 10/659,933 Page 4

Art Unit: 3722

touches the protrusions (11) but does not actually touch/connect the edge of the land

surface (6).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sara Addisu at (571) 272-6082. The examiner can

normally be reached on 8:30 am - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Monica Carter can be reached on (571) 272-4475. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Sara Addisu (571) 272-6082

5/2/06

' MONICA CARTER
SUPERVISORY PATENT EYAMINED

SUPERVISORY PATENT EXAMINER